



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
NATIONAL EXPOSURE RESEARCH LABORATORY  
HUMAN EXPOSURE & ATMOSPHERIC SCIENCES DIVISION (MD-46)  
Research Triangle Park, NC 27711  
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Office of  
Research and Development

## LIST OF DESIGNATED REFERENCE AND EQUIVALENT METHODS

*Issue Date: September 15, 1998*

These methods for measuring ambient concentrations of specified air pollutants have been designated as "reference methods" or "equivalent methods" in accordance with Title 40, Part 53 of the Code of Federal Regulations (40 CFR Part 53). Subject to any limitations (e.g., operating range) specified in the applicable designation, each method is acceptable for use in state or local air quality surveillance systems under 40 CFR Part 58 unless the applicable designation is subsequently canceled. Automated methods are acceptable for use at shelter temperatures between 20°C and 30°C and line voltages between 105 and 125 volts unless wider limits are specified in the method description.

Prospective users of the methods listed should note (1) that each method must be used in strict accordance with its associated operation or instruction manual and with applicable quality assurance procedures, and (2) that modification of a method by its vendor or user may cause the pertinent designation to be inapplicable to the method as modified. (See Section 2.8 of Appendix C, 40 CFR Part 58 for approval of modifications to any of these methods by users.)

Further information concerning particular designations may be found in the *Federal Register* notice cited for each method or by writing to the National Exposure Research Laboratory, Human Exposure and Atmospheric Sciences Division (MD-46), U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711. Technical information concerning the methods should be obtained by contacting the source listed for each method. Source addresses are listed at the end of the listing of methods, except for the addresses for lead method sources, which are given with the method. New analyzers or PM<sub>10</sub> samplers sold as reference or equivalent methods must carry a label or sticker identifying them as designated methods. For analyzers or PM<sub>10</sub> samplers sold prior to the designation of a method with the same or similar model number, the model number does not necessarily identify an analyzer or sampler as a designated method. Consult the manufacturer or seller to determine if a previously sold analyzer or sampler can be considered a designated method or if it can be upgraded to designation status. Analyzer users who experience operational or other difficulties with a designated analyzer or sampler and are unable to resolve the problem directly with the instrument manufacturer may contact EPA (preferably in writing) at the above address for assistance.

This list will be revised as necessary to reflect any new designations or any cancellation of a designation currently in effect. The most current revision of the list will be available for inspection at EPA's Regional Offices, and copies may be obtained by writing to the National Exposure Research Laboratory at the address specified above.

### Designations since August 1997

DKK Corporation Model GFS-32 UV Fluorescent SO<sub>2</sub> Analyzer  
Horiba Instruments, Inc. Model APSA-360/APSA-360ACE Ambient SO<sub>2</sub> Monitor  
BGI Inc. Model PQ200/PQ200A PM<sub>2.5</sub> Ambient Fine Particle Sampler  
Rupprecht & Patashnick, Inc. Partisol®-FRM Model 2000 PM-2.5 Air Sampler  
Rupprecht & Patashnick, Inc. Partisol®-Plus Model 2025 PM-2.5 Sequential Air Sampler  
Graseby Andersen Model RAAS2.5-100 PM<sub>2.5</sub> Ambient Air Sampler  
Graseby Andersen Model RAAS2.5-300 PM<sub>2.5</sub> Sequential Ambient Air Sampler  
Advanced Pollution Instrumentation, Inc. Model 400A Ozone Analyzer  
DKK Corporation Model GLN-114E Nitrogen Oxides Analyzer  
Met One Instruments, Inc. Models BAM1020, GBAM1020, BAM1020-1, GBAM1020-1 PM<sub>10</sub>  
Beta Attenuation Monitors

**LEAD****Reference Method for Lead**

Reference Method for the Determination of Lead in Suspended Particulate Matter Collected from Ambient Air.

*Manual Reference Method: 40 CFR Part 50, Appendix G*

[*Federal Register*: Vol. 43, page 46258, 10/05/78]

**Energy-Dispersive X-Ray Fluorescence Spectrometry (TNRCC)**

*Manual Equivalent Method: EQL-0783-058*

"Determination of Lead Concentration in Ambient Particulate Matter by Energy-Dispersive X-Ray Fluorescence Spectrometry (Texas Natural Resource Conservation Commission)" Texas Natural Resource Conservation Commission, P.O. Box 13087, Austin, TX 78711-3087.

[*Federal Register*: Vol. 48, page 29742, 06/28/83]

**Energy-Dispersive X-Ray Fluorescence Spectrometry (NEA, Inc.)**

*Manual Equivalent Method: EQL-0589-072*

"Determination of Lead Concentration in Ambient Particulate Matter by Energy-Dispersive X-Ray Fluorescence Spectrometry (NEA, Inc.)" Nuclear Environmental Analysis, Inc., Suite 260, 10950 SW 5th Street, Beaverton, OR 97005.

[*Federal Register*: Vol. 54, page 20193, 05/10/89]

**Flame Atomic Absorption Spectrometry**

*Manual Equivalent Method: EQL-0380-043*

"Determination of Lead Concentration in Ambient Particulate Matter by Flame Atomic Absorption Spectrometry Following Ultrasonic Extraction with Heated HNO<sub>3</sub>-HCl"

[*Federal Register*: Vol. 45, page 14648, 03/06/80]

**Flameless Atomic Absorption Spectrometry (EPA/RTP, N.C.)**

*Manual Equivalent Method: EQL-0380-044*

"Determination of Lead Concentration in Ambient Particulate Matter by Flameless Atomic Absorption Spectrometry (EPA/RTP, N.C.)"

[*Federal Register*: Vol. 45, page 14648, 03/06/80]

**Flameless (Graphite Furnace) Atomic Absorption (Houston, Texas)**

*Manual Equivalent Method: EQL-0895-107*

"Determination of Lead Concentration in Ambient Particulate Matter by Flameless (Graphite Furnace) Atomic Absorption (City of Houston, Texas)." Health and Human Services Department, Environmental Chemistry Service, 1115 S. Braeswood, Houston, TX 77030.

[*Federal Register*: Vol. 60, page 39383, 08/02/95]

**Flameless Atomic Absorption Spectrometry (Omaha)**

*Manual Equivalent Method: EQL-0785-059*

"Determination of Lead Concentration in Ambient Particulate Matter by Flameless Atomic Absorption Spectrometry (Omaha-Douglas County Health Department)" Omaha-Douglas County Health Department, 1819 Farnam Street, Omaha, NE 68183

[*Federal Register*: Vol. 50, page 37909, 09/18/85]

**Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Doe Run)**

*Manual Equivalent Method: EQL-0196-113*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Doe Run Co.)" Doe Run Company, Smelting Division, 881 Main Street Herculaneum, MO 63048

[*Federal Register*: Vol. 61, page 11404, 03/20/96]

**Inductively Coupled Argon Plasma-Optical Emission Spectrometry (EPA/RTP)**

*Manual Equivalent Method: EQL-0380-045*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (EPA/RTP, N.C.)"

[*Federal Register*: Vol. 45, page 14648, 03/06/80]

**Inductively Coupled Argon Plasma-Optical Emission Spectrometry (IL)**

*Manual Equivalent Method: EQL-1193-094*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (State of Illinois)." State of Illinois, Environmental Protection Agency, Champaign Inorganic Laboratory, 2120 South First Street, Champaign, IL 61820

[*Federal Register*: Vol. 58, page 61902, 11/23/93]

**Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Kansas)**

*Manual Equivalent Method: EQL-0592-085*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (State of Kansas)" State of Kansas, Department of Health and Environment, Forbes Field, Building 740, Topeka, KS 66620-0001.

[*Federal Register*: Vol. 57, page 20823, 05/15/92]

**Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Montana)**

*Manual Equivalent Method: EQL-0483-057*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (State of Montana)". State of Montana, Department of Health and Environmental Sciences, Cogswell Building, Helena, MT 59620.

[*Federal Register*: Vol. 48, page 14748, 04/05/83]

**Inductively Coupled Argon Plasma-Optical Emission Spectrometry (NETI)***Manual Equivalent Method: EQL-1188-069*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Northern Engineering and Testing, Inc.)" Northern Engineering and Testing, Inc., P.O. Box 30615, Billings, MT 59107.

[*Federal Register*: Vol. 53, page 44947, 11/07/88]

**Inductively Coupled Argon Plasma-Optical Emission Spectrometry (NH)***Manual Equivalent Method: EQL-1290-080*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (State of New Hampshire)" State of New Hampshire, Department of Environmental Services, Laboratory Service Unit, 6 Hazen Drive (P.O. Box 95), Concord, NH 03302-0095.

[*Federal Register*: Vol. 55, page 49119, 11/26/90]

**Inductively Coupled Argon Plasma-Optical Emission Spectrometry (PA)***Manual Equivalent Method: EQL-0592-086*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Commonwealth of Pennsylvania)" Commonwealth of Pennsylvania, Department of Environmental Resources, P.O. Box 2357, Harrisburg, PA 17105-2357.

[*Federal Register*: Vol. 57, page 20823, 05/15/92]

**Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Pima, AZ)***Manual Equivalent Method: EQL-0995-109*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Pima County, Arizona)." Pima County, Wastewater Management Department, 201 North Stone Avenue, Tucson, Arizona 85701-1207.

[*Federal Register*: Vol. 60, page 54684, 10/25/95]

**Inductively Coupled Argon Plasma-Mass Spectrometry (Pima Co., AZ)***Manual Equivalent Method: EQL-0995-110*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Plasma-Mass Spectrometry (Pima County, Arizona)." Pima County, Wastewater Management Department, 201 North Stone Avenue, Tucson, Arizona 85701-1207.

[*Federal Register*: Vol. 60, page 54684, 10/25/95]

**Inductively Coupled Argon Plasma-Optical Emission Spectrometry (RI)***Manual Equivalent Method: EQL-0888-068*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (State of Rhode Island)." State of Rhode Island Department of Health, Air Pollution Laboratory, 50 Orms Street, Providence, RI 02904.

[*Federal Register*: Vol. 53, page 30866, 08/16/88]

**Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Silver Valley)***Manual Equivalent Method: EQL-1288-070*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Silver Valley Laboratories)" Silver Valley Laboratories, Inc., P.O. Box 929, Kellogg, ID 83837.

[*Federal Register*: Vol. 53, page 48974, 12/05/88]

**Inductively Coupled Argon Plasma-Optical Emission Spectrometry (WV)***Manual Equivalent Method: EQL-0694-096*

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (State of West Virginia)." State of West Virginia, Department of Commerce, Labor and Environmental Resources, Division of Environmental Protection, 1558 Washington Street East, Charleston, WV 25311-2599

[*Federal Register*: Vol. 59, page 29429, 06/07/94]

**Wavelength Dispersive X-Ray Fluorescence Spectrometry (CA)***Manual Equivalent Method: EQL-0581-052*

"Determination of Lead Concentration in Ambient Particulate Matter by Wavelength Dispersive X-Ray Fluorescence Spectrometry" California Department of Health Services, Air & Industrial Hygiene Laboratory, 2151 Berkeley Way, Berkeley, CA 94704.

[*Federal Register*: Vol. 46, page 29986, 06/04/81]

**NOTES**

<sup>1</sup> Users should be aware that designation of this analyzer for operation on ranges less than the range specified in the performance specifications for this analyzer (40 CFR 53, Subpart B) is based on meeting the same absolute performance specifications required for the specified range. Thus, designation of these lower ranges does not imply commensurably better performance than that obtained on the specified range.

<sup>2</sup> This analyzer is approved for use, with proper factory configuration, on either 50 or 60 Hertz line frequency and nominal power line voltages of 115 Vac and 220 Vac.

## Sources or Contacts for Designated Reference and Equivalent Methods

ABB Process Analytics P.O. Box 831 Lewisburg, WV 24901 (304) 647-4358	Environnement S.A 111, bd Robespierre 78300 Poissy, France Instruments also available from: Altech/Environnement U.S.A. 7206 Impala Drive Richmond, VA 23228 (804) 262- 4447 kchaffee@altechusa.com	Monitor Labs, Inc. 74 Inverness Drive Englewood, CO 80112-5189 (800) 422-1499
Advanced Pollution Instrumentation, Inc. 6565 Nancy Ridge Drive San Diego, CA 92121-2251 (619) 657-9800	Environics, Inc. 69 Industrial Park Rd. E. Tolland, CT 06084-2805 (203) 429-0077	Opsis AB, Furulund, Sweden Instruments also available from: Opsis, Inc. 146-148 Sound Beach Avenue Old Greenwich, CT 06870 (203) 698-1810
ASARCO Incorporated 3422 South 700 West Salt Lake City, UT 84119 (801) 262-2459	Andersen Instruments 500 Technology Court Smyrna, GA 30082-9211 (800) 241-6898	State of Oregon Department of Environmental Quality Air Quality Division 811 S.W. Sixth Avenue Portland, OR 97204
Beckman Instruments, Inc. Process Instruments Division 2500 Harbor Blvd. Fullerton, CA 92634 (714) 871-4848	Graseby GMW [Refer to Andersen Instruments]	PCI Ozone Corp. One Fairfield Crescent West Caldwell, NJ 07006 (201) 575-7052
Bendix [Refer to ABB Process Analytics]	Horiba Instruments Incorporated 17671 Armstrong Avenue Irvine, CA 92714 (800) 446-7422	Phillips Electronic Instruments, Inc. 85 McKee Drive Mahwah, NJ 07430
BGI Incorporated 58 Guinan Street Waltham, MA 02154	Lear Siegler [Refer to Monitor Labs, Inc.]	Rupprecht & Patashnik Co.,Inc. 25 Corporate Circle Albany, NY 12203 (518) 452-0065
Columbia Scientific Industries 11950 Jollyville Road Austin, TX 78759 (800) 531-5003	Commonwealth of Massachusetts Department of Environmental Quality Engineering Tewksbury, MA 01876	Thermo Environmental Instruments, Inc. 8 West Forge Parkway Franklin, MA 02038 (508) 520-0430
Combustion Engineering [Refer to ABB Process Analytics]	Met One Instruments, Inc. 1600 Washington Blvd. Grants Pass, OR 97526	U.S. EPA National Exposure Research Laboratory Human Exposure & Atmospheric Sciences Division MD-46 Research Triangle Park, NC 27711 (919) 541- 2622
Dasibi Environmental Corp. 506 Paula Avenue Glendale, CA 91201 (818) 247-7601	McMillan [Refer to Columbia Scientific Industries]	Wedding and Associates, Inc. [Refer to Thermo Environmental Instruments, Inc.]
DKK Corporation 4-13-14 Kichijoji Kitamachi, Musashino-shi Tokyo, 180, Japan	Mine Safety Appliances 600 Penn Center Blvd. Pittsburgh, PA 15235-5810 (412) 273-5101	

# U.S. EPA REFERENCE & EQUIVALENT METHODS FOR AMBIENT AIR

June 15, 1998

<u>Method</u>	<u>Designation Number</u>	<u>Method Code</u>	<u>Method</u>	<u>Designation Number</u>	<u>Method Code</u>	
<b>SO, Manual Methods</b>						
Reference method (pararosaniline)	--	097	Beckman 952A	RFNA-0179-034	034	
Technicon I (pararosaniline)	EQS-0775-001	097	Bendix 8101-B	RFNA-0479-038	038	
Technicon II (pararosaniline)	EQS-0775-002	097	Bendix 8101-C	RFNA-0777-022	022	
<b>SO, Analyzers</b>						
Advanced Pollution Instr. 100	EQSA-0990-077	077	Columbia Scientific Indust.1600, 5600	RFNA-0977-025	025	
Advanced Pollution Instr. 100A	EQSA-0495-100	100	Dasibi 2108	RFNA-1192-089	089	
Asarco 500	EQSA-0877-024	024	DKK Corp GLN-114E	RFNA-0798-121	121	
Beckman 953	EQSA-0678-029	029	Environnement S.A. AC31M	RFNA-0795-104	104	
Bendix 8303	EQSA-1078-030	030	Horiba APNA-360	RFNA-0196-111	111	
Columbia Scientific Industries 5700	EQSA-0494-095	095	Lear Siegler or Monitor Labs ML9841, ML9841A, Monitor Labs ML9841B,			
Dasibi 4108	EQSA-1086-061	061	Wedding 1030	RFNA-1292-090	090	
DKK Corp, Model GFS-32	EQSA-0701-115	115	Meloy NA530R	RFNA-1078-031	031	
Environnement S.A. AF21M	EQSA-0292-084	084	Monitor Labs 8440E	RFNA-0677-021	021	
Horiba Model APSA-360/APSA-360ACE	EQSA-0197-114	114	Monitor Labs or Lear Siegler 8840	RFNA-0280-042	042	
Lear Siegler AM2020	EQSA-1280-049	049	Monitor Labs or Lear Siegler 8841	RFNA-0991-083	083	
Lear Siegler SM1000	EQSA-1275-005	005	Opsis AR 500, System 300 (open path)	EQNA-0495-102	102	
Lear Siegler or Monitor Labs ML9850, Monitor Labs ML9850B, Wedding 1040	EQSA-0193-092	092	Philips PW9762/02	RFNA-0879-040	040	
Meloy SA185-2A	EQSA-1275-006	006	Thermo Electron or Thermo Environmental Instruments 14B/E	RFNA-0179-035	035	
Meloy SA285E	EQSA-1078-032	032	Thermo Electron or Thermo Environmental Instruments 14D/E	RFNA-0279-037	037	
Meloy SA700	EQSA-0580-046	046	Thermo Environmental Instr. 42, 42C	RFNA-1289-074	074	
Monitor Labs 8450	EQSA-0876-013	513				
Monitor Labs or Lear Siegler 8850	EQSA-0779-039	039				
Monitor Labs or Lear Siegler 8850S	EQSA-0390-075	075				
Opsis AR 500, System 300 (open path)	EQSA-0495-101	101				
Philips PW9700	EQSA-0876-011	511				
Philips PW9755	EQSA-0676-010	010				
Thermo Electron 43	EQSA-0276-009	009				
Thermo Electron 43A or Thermo Environmental Instruments 43B, 43C	EQSA-0486-060	060				
<b>O<sub>3</sub>, Analyzers</b>						
Advanced Pollution Instr. 400/400A	EQOA-0992-087	087	Reference method (hi-vol/AA spect.)	--	803	
Beckman 950A	RFOA-0577-020	020	Hi-vol/AA spect. (alt. extr.)	EQL-0380-043	043	
Bendix 8002	RFOA-0176-007	007	Hi-vol/Energy-disp XRF (TX ACB)	EQL-0783-058	058	
Columbia Scientific Industries 2000	RFOA-0279-036	036	Hi-vol/Energy-disp XRF (NEA)	EQL-0589-072	072	
Dasibi 1003-AH,-PC,-RS	EQOA-0577-019	019	Hi-vol/Flameless AA (EMSL/EPA)	EQL-0380-044	044	
Dasibi 1008-AH	EQOA-0383-056	056	Hi-vol/Flameless AA (Houston)	EQL-0895-107	107	
Envirionics 300	EQOA-0990-078	078	Hi-vol/Flameless AA (Omaha)	EQL-0785-059	059	
Environnement S.A. O <sub>3</sub> 41M	EQOA-0895-105	105	Hi-vol/ICAP spect. (Doe Rue Co.)	EQL-0196-113	113	
Horiba APOA-360	EQOA-0196-112	112	Hi-vol/ICAP spect. (EMSL/EPA)	EQL-0380-045	045	
Lear Siegler or Monitor Labs ML9810, Monitor Labs ML9810B, Wedding 1010	EQOA-0193-091	091	Hi-vol/ICAP spect. (Illinois)	EQL-1193-094	094	
McMillan 1100-1	RFOA-1076-014	514	Hi-vol/ICAP spect. (Kansas)	EQL-0592-085	085	
McMillan 1100-2	RFOA-1076-015	515	Hi-vol/ICAP spect. (Montana)	EQL-0483-057	057	
McMillan 1100-3	RFOA-1076-016	016	Hi-vol/ICAP spect. (NE&T)	EQL-1188-069	069	
Meloy OA325-2R	RFOA-1075-003	003	Hi-vol/ICAP spect. (New Hampshire)	EQL-1290-080	080	
Meloy OA350-2R	RFOA-1075-004	004	Hi-vol/ICAP spect. (Pennsylvania)	EQL-0592-086	086	
Monitor Labs 8410E	RFOA-1176-017	017	Hi-vol/ICAP spect. (Pima Co.,AZ)	EQL-0995-109	109	
Monitor Labs or Lear Siegler 8810	EQOA-0881-053	053	Hi-vol/ICAP spect. (Pima Co.,AZ)	EQL-0995-110	110	
Opsis AR 500, System 300 (open path)	EQOA-0495-103	103	Hi-vol/ICAP spect. (Rhode Island)	EQL-0888-068	068	
PCI Ozone Corp. LC-12	EQOA-0382-055	055	Hi-vol/ICAP spect. (Silver Val. Labs)	EQL-1288-070	070	
Philips PW9771	EQOA-0777-023	023	Hi-vol/ICAP spect. (West Virginia)	EQL-0694-096	096	
Thermo Electron or Thermo Environmental Instruments 49, 49C	EQOA-0880-047	047	Hi-vol/WL-disp. XRF (CA A&IHL)	EQL-0581-052	052	
<b>CO Analyzers</b>						
Advanced Pollution Instr. 300	RFCA-1093-093	093				
Beckman 866	RFCA-0876-012	012				
Bendix 8501-5CA	RFCA-0276-008	008				
Dasibi 3003	RFCA-0381-051	051				
Dasibi 3008	RFCA-0488-067	067				
Environnement s.a. CO11M	RFCA-0995-108	108				
Horiba AQM-10, -11, -12	RFCA-1278-033	033				
Horiba 300E/300SE	RFCA-1180-048	048				
Horiba APMA-360	RFCA-0895-106	106				
Lear Siegler or Monitor Labs ML9830, Monitor Labs ML9830B, Wedding 1020	RFCA-0992-088	088				
MASS - CO 1 (Massachusetts)	RFCA-1280-050	050				
Monitor Labs 8310	RFCA-0979-041	041				
Monitor Labs or Lear Siegler 8830	RFCA-0388-066	066				
MSA 202S	RFCA-0177-018	018				
Thermo Electron or Thermo Environmental Instruments 48, 48C	RFCA-0981-054	054				
<b>NO, Manual Methods</b>						
Sodium arsenite (orifice)	EQN-1277-026	084				
Sodium arsenite/Technicon II	EQN-1277-027	084				
TGS-ANSA (orifice)	EQN-1277-028	098				
<b>NO, Analyzers</b>						
Advanced Pollution Instr. 200	RFNA-0691-082	082				
Advanced Pollution Instr. 200A	RFNA-1194-099	099				
<b>PM<sub>10</sub> Samplers</b>						
Rupprecht & Patashnick Partisol 2000	RFPS-0694-098	098				
Oregon DEQ Medium volume sampler	RFPS-0389-071	071				
Sierra-Andersen/GMW 1200	RFPS-1287-063	063				
Sierra-Andersen/GMW 321-B	RFPS-1287-064	064				
Sierra-Andersen/GMW 321-C	RFPS-1287-065	065				
Sierra-Andersen/GMW 241 Dichot.	RFPS-0789-073	073				
W&A/Thermo Electron Mod 600 HVL	RFPS-1087-062	062				
<b>PM<sub>10</sub> Analyzers</b>						
Met One BAM1020, GBAM1020, BAM1020-1, GBAM1020-1	EQPM-0798-122	122				
Andersen Instruments Beta FH621-N	EQPM-0990-076	076				
R & P TEOM 1400, 1400a	EQPM-1090-079	079				
W&A/Thermo Electron 650 Beta Gauge	EQPM-0391-081	081				
<b>PM<sub>5</sub> Samplers</b>						
BGI PQ200/200A	RFPS-0498-116	116				
Ruppert & Patasnick Partisol-FRM 2000	RFPS-0498-117	117				
Ruppert & Patasnick Partisol-Plus 2025	RFPS-0498-118	118				
Graseby Andersen RAAS2.5-100	RFPS-0598-119	119				
Graseby Andersen RAAS2.5-300	RFPS-0598-120	120				
<b>TSP Manual Method</b>						
Reference method (high-volume)	--	802				